

MULTIEYE[®]-NET

Network video recording & management software

Future-safe - multifunctional - modular



MULTIEYE®-NET SOFTWARE



For over 10 years now, artec technologies inc. from the traditional county seat of Diepholz near Bremen, Germany, has been developing and producing professional video surveillance software and recorders internationally known by the brand name MULTIEYE®. More than 12,000 of these systems are now in use around the world. The MULTIEYE-NET software is the basic software of all MULTIEYE products. It is 100% compatible with all MULTIEYE products across the board.

With the MULTIEYE-NET software, highly professional PC and server-based network video recorders (NVR) with 2 to 32 IP video channels can be created. It can also be used on notebooks. For larger systems with a number of servers, the site-plan based video management solution „VideoCenter II“ is available. The MULTIEYE-NET software is developed and produced in accordance with international industrial quality standards.

During the design and further development of the software, special emphasis has been placed on ease of operation, scalability, performance and future adaptability. An important additional feature is the integration of network cameras and video servers from numerous reputable and well-known manufacturers.

The very name MULTIEYE-NET stands for innovative and multifunctional software. Because of its modular setup, it can be modernized and adapted to specific customer and/or project needs at any time. The software features a maximum of flexibility, expandability and future security.



Highlights

- Scalable IP video management and recorder software with up to 32 IP video channels
- Modular software architecture, individually expandable
- Quadplex operation
- Support for JPEG, MJPEG and MPEG-4 IP video codec
- Recording rates up to 1.000 MPixel/s through DirectStream technology
- Support of all common network cameras and video servers from over 60 manufacturers
- Future-proof: up to 20 MPixel images per IP video input
- Digital zooming during both live operation and playback
- Motion detection for all inputs
- Data storage up to 24 TB, support of NAS servers
- Multifunctional remote polling and configuration
- PDA ready (without additional software)
- Express evaluation of events

Article	Delivery contents:
810158	2/32 channel MULTIEYE-NET "Starter" network video recording and management software, expandable to 32 channels by IP-4
810160	4/32 channel MULTIEYE-NET network video recording and management software, expandable to 32 channels by IP-4
810165	8/32 channel MULTIEYE-NET IP video recording and management software incl. IP-HD module, expandable to 32 channels by IP-4
810167	16/32 channel MULTIEYE-NET network video recording and management software incl. IP-HD module, expandable to 32 channels by IP-4
810169	24/32 channel MULTIEYE-NET network video recording and management software incl. IP-HD module, expandable to 32 channels by IP-4
810168	32/32 channel MULTIEYE-NET network video recording and management software incl. IP-HD module
810161	IP-4 activation license for activation up to or by 4 additional IP-video channels
810163	IP-HD Module for the use of multi megapixel network cameras with a resolution larger than 1,4 megapixels, server license

The delivery contents include the MULTIEYE-NET software incl. a NetworkPlayer license on CD, short guide and USB dongle.

You will find descriptions of software and hardware enhancements for MULTIEYE-NET in the pages following.

MULTIEYE® SOFTWARE FEATURES

Express setup by Plug & Play

Drag & drop with the mouse makes MULTIEYE-NET software very simple to operate. The user interface was designed to be easy to understand and user-friendly. Custom configurations, e.g. personal Multiscreens, can be stored individually by user

Clear license model

Why make it complicated when you can do it with MULTIEYE! MULTIEYE-NET provides a fully expandable product at the best value for your money. The software can be enhanced manually or through the licensing server. All licenses are linked to specific USB dongles, so access to the internet is not necessary for licensing.

Development and production in accordance with ISO 9001:2000

The development and production of all products from artec technologies inc. is done in accordance with ISO 9001:2000 and, as a result, fulfills the very highest demands for quality assurance.

Our very own base technologies

The MULTIEYE-NET software is based upon a series of technologies developed especially by artec technologies inc. Our patented CVoD procedure, for instance, enables event-related, time-shifted playback in networks. With our „DirectStream“ technology, IP video data are directly processed and recorded. Correspondingly, recording rates up to 800 fps/ips can be attained, and image data of up to 1.000 MPixel/s per server can be processed – depending on system configuration. The MD indexing procedure enables ultrafast video analysis of recorded data even within networks. With the process of dynamic bandwidth telecommunication transmission, video data are so optimized that even megapixel cameras can be polled via DSL, while maintaining the best resolution during the transmission of zoomed-in areas.

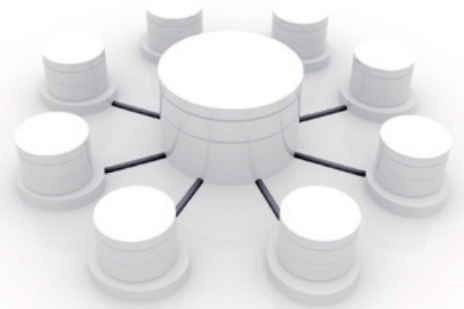
„BGV Kassen“ certified

In August, 2008, MULTIEYE-NET software was examined by Germany's „BG“ (Employer's Liability Insurance Association) and recognized as compliant with their video surveillance requirements for banking houses. The „BGV Kassen“ approval now certifies that the MULTIEYE-NET software can be used for video surveillance systems in banking and financial institutions. Special features such as pre- and post-alarm as well as suspect-alarm recording are also available to the end user.

Quadlex® operation

Features the simultaneous operation of

- Live display
- Recording
- Playback and evaluation
- Remote surveillance



MULTIEYE® SOFTWARE-FEATURES



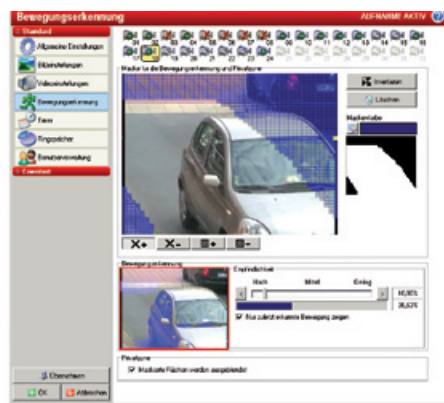
Support of network cameras and video servers

MULTIEYE-NET supports network cameras and video servers from over 60 manufacturers including

4XEM, ACTi, Advantech, Allnet, Apro, artec technologies, ArecontVision, Aviosys, AXIS, Basler, Bosch, Bosslan, Canon, Cellvision, Conceptronic, Con-nec Tec, Convision, DigiLan, Digitus, D-Link, Eltis, ELMO, ENEO, Everfocus, Eyetelligent, For-A, FlexWatch, Grand, Grandtec, Hawking, Hunt Intellinet, IOImage, IQEye, IPX, JVC, Leadtek, LevelOne, Lindy, Lilin, Linudix, Lumene-ra, Misumi, Mobotix, Moxa, Panasonic, Pixord, Planet, PTAV, Samsung, San-tec, Siemens, Sony, Sanyo, Stardot, SparkLan, Surveyor, Sweex, Toshiba, TRC, VCS, Visicom, Vivotec, Xannet, Y-Cam and Yoko.

Programmable multiscreens with hot-spot monitor

To enable the clear arrangement of the live display, a selection of 8 program-mable MultiScreens for the display of one up to 32 cameras is at your disposal. Each user's multiscreens can be stored independently. The hot-spot monitor is individually configurable and can be embedded into a multiscreen or re-moved from the multiscreen and displayed on a separate monitor. With the optional „VideoCenter II“ up to 320 cameras can be administered.



Motion detection across the board

All connected network cameras and video servers are kept under surveillance on a motion detection matrix with 2304 individual fields. The high matrix re-solution makes it possible to mark specific object fields for surveillance.

PTZ remote control

Via software pop up, joystick or directly in the live image incl. Direct-Move function.

Multi-monitor operation

MULTIEYE-NET supports the operation of up to 4 desktop monitors. Mul-tiscreens, Player, certain camera and hot-spot windows can be individually arranged on the monitors.



Multifunctional storage management

With MULTIEYE-NET, you can choose between dynamic and static memory management. With dynamic memory management, the video data are auto-matically distributed over the hard drive(s), whereas static recording sets up an individual storage capacity for each individual video source. MULTIEYE-NET supports operations with up to 24 hard drives/partitions or network drives and can administer up to 24 TB per server.

MULTIEYE® SOFTWARE-FEATURES

Event-driven recording

All video channels can be configured for continuous recording or timer operation. In addition, they can also be event-driven via Motion Detection, contact-driven and even activated by signal word(s) via the DataLog interfaces (COM, TCP).

Playback

Playback is carried out via either a local multi- or the network player. Both players are optically and functionally identical and differ only in minor characteristics. They provide a four-fold display with motion histogram, video analysis with MotionSearch and MotionTracker, export functions for images and videos, and many other features. Playback can be controlled by keyboard shortcuts as well as with a jog shuttle.

Efficient evaluation

For the ultrafast analysis of video data, the player puts a highly efficient video analysis tool at your disposal. By means of a special indexing process, volumes of data – even in the multiple digit terabyte range – can be analyzed in just a few seconds. With the Motion Search function, one or more „event regions“ can be freely defined to display image changes of a pre-definable size.

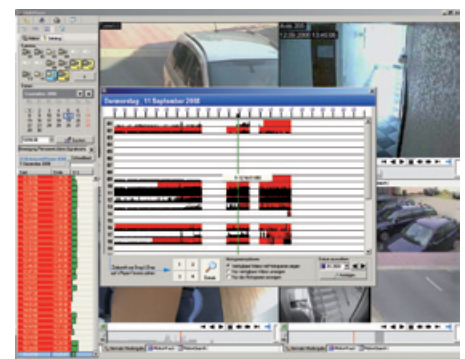
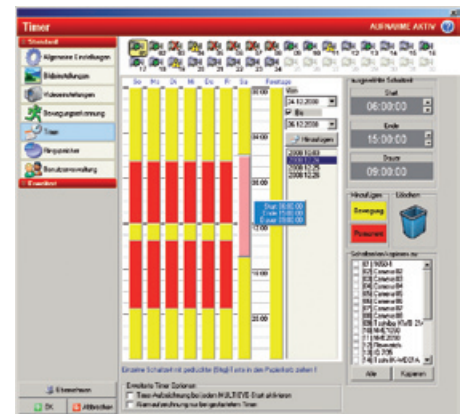
Remote surveillance and configuration

Remote surveillance can be carried out via LAN, WAN, Internet or telephone connection for both live display and playback. Here MULTIEYE-NET provides a number of license-free polling variants for the customer to choose from:

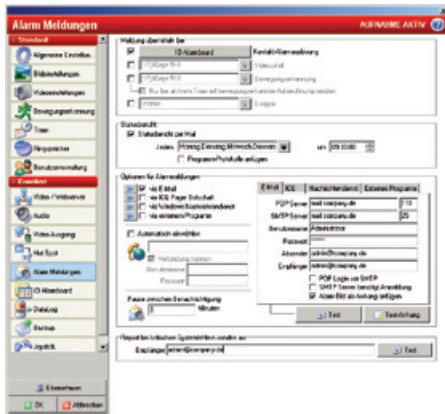
- ‚LiveViewer‘ with alarm pop up display which can be positioned on the desktop monitor as desired
- Multiscreen for configuration and remote surveillance of a server
- Standard browser without ActiveX or Java enhancements (also PDA/mobile telephone compatible)
- NetworkPlayer for simultaneous playback, video analysis and image/video export – one license included with the software

Highest functional security

MULTIEYE detects loss of network connection to/from the network cameras and provides alarm notification. Additional security is provided by watchdog functions for an automatic software or hardware restart, crash recovery for problem-free continued operation after a power failure, as well as the MULTIEYE-shell for restricted MULTIEYE operation with access protection at the Windows level.



MULTIEYE® SOFTWARE-FEATURES



SystemRestorer

The SystemRestorer was particularly designed for service purposes. It makes it possible to store and re-store the entire MULTIEYE-NET configuration (including user management). In addition, reference images from all connected cameras can be stored for comparison with subsequent camera positions, e.g. in case servicing is necessary.

Alarm and routine announcement

Alarm notification in case of motion detection, alarm contact or system failures can be made via email, SMS, Windows messenger service or other external (third party) programs – with or without an alarm snap shot. Integrated routine announcements are dispatched automatically – at predetermined times – as emails with status notification and event protocols. Perfect for remote control of system functionality.



User management

MULTIEYE-NET features group-oriented user management. Users and groups can be created for different levels of authorization, even up to camera defined. An integrated „four-eyes principle“ prevents abuse.

Audio

Audio recording is optionally possible by including additional hardware.

Data interface

MULTIEYE-NET offers a flexible data interface. With the DataLog module, data from points of sale (POS), barcode scanners, ATMs, access and identification control points, or measurement data capture systems can be received, processed, displayed, stored and evaluated through full text search via COM or TCP.

Expandability

MULTIEYE-NET has a modular structure. For the implementation of tailor-made systems, it provides a large variety of software and hardware components such as expansion licenses, software modules (e.g. AutoBackup, Shell, VideoCenter II, DataLog,) the network player, right on up to video boards for the expansion of a HYBRID system. MULTIEYE-NET is “EBÜS” alarm center compatible and can be linked to those centers.



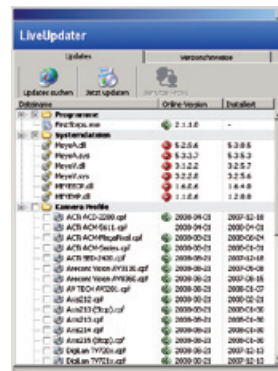
MULTIEYE® SOFTWARE-FEATURES

Live updates

Software updates are available via the Internet from the MULTIEYE update server or can optionally be delivered as update CDs within the framework of a support contract.

SDK

The SDK gives third-party providers the opportunity to integrate MULTIEYE-NET into their own applications.



OEM, customizing and multilingual capacity

MULTIEYE-NET can easily be adapted to a customer's corporate image. A self-contained, modified OEM version can be created as well. In its standard version, MULTIEYE-NET provides over eight languages. Additional languages and font characters can quickly be added via a special context-oriented editing program.

Compatability

MULTIEYE-NET features a wide range of interfaces and is compatible with

- Video sensors: via:sys, ioimage
- Alarm centers: EBÜS
- Building management: WinGuard
- Access control: Delta Controls, Bewator 2010, Rosslare
- POS facilities: Casio, Huth, Vectron, etc.



Technical Data

MULTIEYE-NET	
IP video inputs	Up to 32 channels. The basic software provides 2 channels which can be increased up to 32 with incremental IP 4 licenses
IP cameras and video servers	Support of over 200 common IP cameras and video servers from presently more than 50 manufacturers from Axis to Yoko. Transmission formats: JPEG, MJPEG or MPEG-4 (with RTSP protocol)
Image resolution IP video	Standard up to 1.4 MPixels, expandable through IP-HD modules up to 20 MPixels per video channel
Recording rate *	Up to 800 MPixel, dependent on CPU, resolution, Codec and compression
Codec	JPEG, MJPEG and MPEG-4, adjustable for each camera dependent on camera model
Alarm inputs & outputs	Up to 96 alarm inputs and 96 relay outputs through EX-IO server or per video sensor
PTZ control	Control via pop-up menu, keyboard or 3-axis joystick
Live Monitoring	Via 8 programmable multi-screens
Text Overlay	Time, date, free text to 50 characters, variable positioning, variable font & font size
Data imprint and recording	For POS, access control, etc., optionally with up to 10 lines at 40 characters
Motion Detection	Matrix with up to 2304 individual fields, unlimited no. of fields selectable
Weekly timer	Adjustable per camera, continuous, motion detection, no recording, holiday function
Playback	1-4 fold display, simultaneous or synchronized playback
Search criteria	Date, time, motion detection, MotionTrack, MotionSearch (image area search), motion histogram
IP Video loss recognition	Audio and optical messages via network as well
Video export	In AVI format, single or multiple videos with player for external playback
SnapShots	In BMP or JPEG format
Authentication	Digital certification through invisible watermark in image export
Ring-storage management	Dynamic or static storage division, up to 24 harddrives, NAS, SAN
Pre-alarm storage	Variable for each camera from 5-900 seconds
Password protection	Multilevel password protection, freely definable user groups with individual rights, true "4-eyes" principle
Remote inquiry	Per browser without plug-ins, LiveViewer with pop-up display and optical and/or audio alarm, Network player for network-based analysis and playback, VideoCenter II optional
Remote configuration and maintenance	Via MULTIEYE Remote Control function (MRC)
Web and video servers	Integrated
Functional security	On-board Watchdog, software Watchdog, crash recovery, video outage recognition
Alarm messages	Via email, SMS, ICQ, Windows News Service, external programs with or without alarm image
Routine messages	For automatic status signals of the recorder functions, programmable with/without log files, time and day of the week programmable
Log book	Yes
Software update	Per live updater via the Internet + CD-Rom in the context of a maintenance contract
Menu languages	DE, DK, EN, FR, IT, NL, PL, SE, others continually added
Compatibility	The Software ist compatible to all MULTIEYE products
PC/Server system recommendations	INTEL® based main board, Core2 Duo processor, 1 GB RAM, 1 HDD for operating system and software, 1 HDD for video data, DVD burner, Windows 2000, XP or 2003 Server, efficient housing ventilation
Delivery contents	Software on CD with user's manual, quick guide and USB dongle

* Specifications on max. recording rates ips/fps and image processing in MPixel/s are to be understood as approximate values. The actual performance depends on the performance of the server and storage, activation of the Multiscreen display, number of simultaneous remote inquiries, network camera image resolution, compression and kind of codec.

MULTIEYE soft- & hardware enhancements

for all MULTIEYE products

VIDEOCENTER II



Highlights

- Site-plan based video management software for cross-system display and operation of an unlimited number of MULTIEYE systems.
- Management of up to 256 video windows
- Live display with full quality and resolution via DirectStream network transmission
- Integrated site-plan editor for simple positioning of interactive icons
- Support of up to 4 monitors
- For each monitor, freely definable monitor layout (live and playback windows, hot-spots, browser, IO control window, event lists, etc.)
- User management
- Dynamic hot-spot function
- Browser integration: display of HTML pages (e.g. emergency plans of action)
- Instant replay of recordings and time-shifted playback
- Automatic alarm-image call-up
- PTZ control via software, keyboard or operational unit
- Retroactive control of alarm inputs and outputs
- Simple installation and configuration

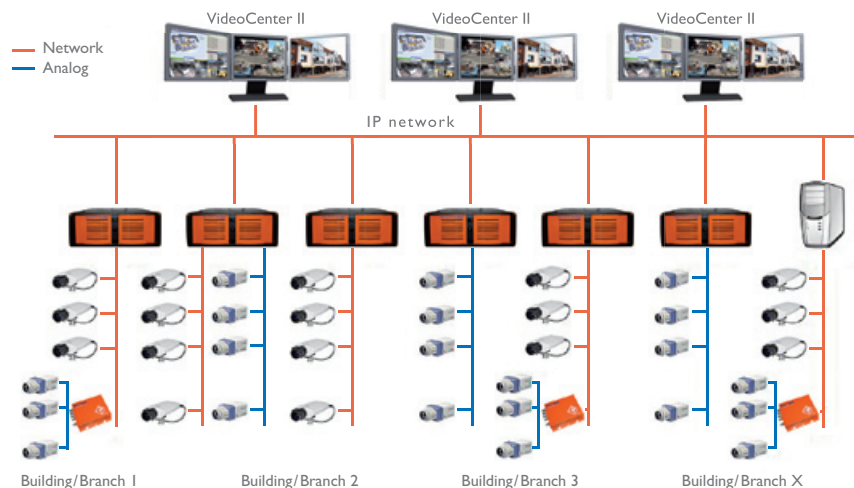
System recommendation

Intel® based main board, Core™2 Duo processor, 1 GB ram, DVD burner, Windows 2000, XP or 2003 Server, well ventilated housing, dual head

Keep an eye on things with VideoCenter II

MULTIEYE VideoCenter II is a site-plan based, cross-system video management solution for administering a virtually unlimited number of MULTIEYE systems and simultaneously managing up to 256 video windows on up to 4 workstation monitors. Regardless of whether you need an easy-to-operate but effective solution for reception or a complex control center solution, the highly configurable VideoCenter II software is suited for a large variety of applications.

The intuitive user interface enables efficient interaction with the video surveillance system and provides all the relevant information in real time via IP networks. In this way, you can keep everything in view, open doors or barriers and receive up-to-date information on critical events within your company, regardless of whether it is in a local suburb or far away in one your branches or other places of business.



Client licensing

VideoCenter II is a video management solution which can be deployed at a number of locations with simultaneous remote operation of MULTIEYE-HYBRID/NET systems. Several VideoCenter II clients can access the same MULTIEYE system at the same time. VideoCenter II itself can address a virtually unlimited number of MULTIEYE systems in a network, although a VideoCenter II client's simultaneous access is limited to a maximum of 10 MULTIEYE systems. For extended playback functions (images, video storage, MotionSearch, etc.) the NetworkPlayer function must be activated on the MULTIEYE recorder(s).

The software license is authorized via a USB dongle which is inserted into a free USB port on the PC with the installed VideoCenter II. A license is required for each client.

Article no. Delivery contents

810155	VideoCenter II with CD, user's manual, MULTIEYE VideoCenter II license, USB dongle
181500	Polling station for MULTIEYE-HYBRID recorders incl. site-plan based video management software and connections for 2 monitors (VGA/DVI), midi tower housing, incl. mouse and keyboard, Window XP Professional

NETWORKPLAYER

Functions

The NetworkPlayer makes it possible for you to easily access your MULTIEYE-HYBRID and NET systems via your network or the internet. In this way, you can efficiently evaluate recordings and export relevant sequences or images to secure evidence on local storage media such as DVD or the hard drive of your PC or notebook – remotely as well.

The NetworkPlayer is nearly identical to the MULTIEYE-HYBRID Player: e.g. simultaneous playback of up to 4 videos; quick fast forward and rewind; access to individual sequences; table summaries with filter functions; histogram overviews; motion diagrams; snapshots functions with storage and printing capabilities; protection of the videos against overwriting.

Server/Clients

After inputting the activation key-code, the NetworkPlayer server function on the MULTIEYE-HYBRID PC is activated and the videos can be started from client locations.

The NetworkPlayer software can be installed on several clients; with one NetworkPlayer server license installed on the MULTIEYE-HYBRID PC, only one participant/user can access the MULTIEYE PC at a time.

However, a maximum of 5 participants/users can be granted simultaneous access to the MULTIEYE PC – if five licenses are obtained.

Delivery contents

- Program CD
- Operating instructions
- Activation key for one MULTIEYE-HYBRID NetworkPlayer server license

Article no.	Delivery contents
810151	NetworkPlayer Software and server license for playback, securing and storage of video sequences and/or single images via network, 1-4 channel playback, integrated caching function. Usable as a single player for playback of copied videos on storage media. Server license for one user.

A NetworkPlayer server license is included in every MULTIEYE basic package (recorder, kit, NET).



Highlights

- Remote evaluation, play back, storage and archiving of video sequences and images via LAN, internet, GSM/UMTS
- Simultaneous 1-4 channel playback of MJPEG and MPEG-4 streams
- Conversion to MJPEG/MPEG-4 to reduce the necessary transmission bandwidth
- Ultra-fast remote video analysis of recordings with hot-spot markers through MotionSearch, MotionTrack, Motion Diagram, histogram
- Integrated cache function for fast forward and rewind, as well as quick-run access to specific recording sequences
- Utilization as a stand-alone player for archived and exported recordings
- Server license for a single user, installation on a number of PCs possible

System requirements

Intel® based main board, Core™2 Duo processor, 1 GB ram, DVD burner, Windows 2000, XP or 2003 Server, well ventilated housing, dual head

DATALOG MODULE



Highlights

- Data transfer via RS-232 and network
- Data integration into live camera images with display of up to 10 lines
- Customizable font, font size, font color, background color as well as position
- Automatic alarm notification for key words
- Event search via key words, time, date, device
- Full network compatibility

The DataLog module is a data interface for all MULTIEYE products (from version 2.0.1). This enhancement enables the integration of data devices such as registers (POS), ATMs, access controls, scanners (bar code readers), SPS controllers, GPS receivers, etc.

The data is displayed in the live camera image via the MULTIEYE recorder's RS-232 interface (TCP) as well as via the network, and is linked to the video recording. The recorded data can be evaluated by key words (e.g., "cancel") and displayed together with the relevant video.

Through such key words, automatic notifications can automatically be dispatched via mail or SMS. The MULTIEYE software supports the operation of up to 32 devices per recorder!

The DataLog module can be operated with analogue and/or IP cameras.

Article no.	Delivery contents
810172	DataLog Module
810173	DataLog License for one additional data device

SHELL MODULE



Highlights

- No access to the Windows level without authorization
- Direct start-up of the shell desktop
- Interconnection to several programs is possible
- Ideal tool for exclusive operation as a recorder

Software to protect against undesired use of Windows

With the shell module, users can be denied access to Windows. Only MULTIEYE functions.

In this case, MULTIEYE only be closed down via the shell desktop interface. Access to the Windows interface can only be obtained with a password. Supplementary programs can be connected to the shell interface, such as Live-Viewer or Office applications.

The optics of the shell desktop interface can be customized.

Article no.	Delivery contents
810153	Shell Module

AUTOBACKUP MODULE

Automatic backup of videos

With the MULTIEYE AUTOBACKUP Software module you can automate the archiving of your image and audio recordings and in this way protect yourself from data loss by overwriting (ring storage), outages or sabotage. Archiving can then be done on a time or event controlled basis or continuously, either locally or on storage media via network. For each camera, you can individually predefine which segments of your recordings are to be archived.

This means that you may fulfill the requirements of data privacy protection laws by, for example, only archiving relevant recordings. By software activation, this function can also be retrofitted on all MULTIEYE-HYBRID and NET systems, adding to the security of your investment in the MULTIEYE system.

Activating the software function

Enhancement of your MULTIEYE system with the auto-backup function is simply done by software activation. To do this, an activation key is either typed or loaded into the MULTIEYE software user interface.

After completion of the licensing, you have auto-backup at your disposal for a maximum of 32 cameras and audio channels, i.e. for several MULTIEYE DVRs/NVRs you will need an individual license key per device/system.

Archiving options

Alarm videos: here only those videos will be backed up which were recorded by contact-alarm activation.

Store only protected videos: back up only protected videos: alarm-activated videos can be protected against overwriting. With this setting only protected recordings will be archived.

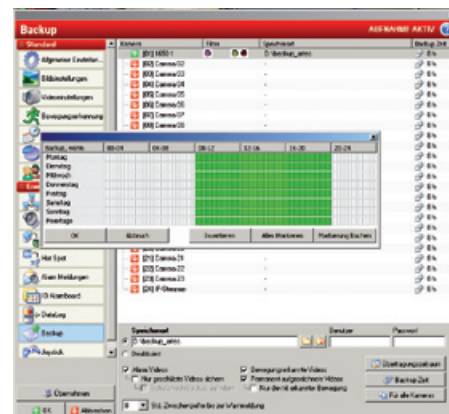
Cancel protection after backup: After archiving is completed, the overwrite protection of the archived video file will be removed.

Motion-activated videos: only motion-activated recordings are archived.

Videos with motion field: only those recordings/sequences will be archived which contain a change in the image content (motion).

Continuous: With this setting all recordings are archived.

Of course, archiving can also be done with a combination of the previously named criteria. Upon fulfillment of the predefined criteria, archiving can be done immediately or at previously predefined times of day. In addition to automatic archiving, the process can also be started and/or stopped manually via the operator interface.



Highlights

- MULTIEYE software enhancement for automatically exporting and archiving video and audio recordings
- Continuous, time- or event-controlled archiving
- Manual start and stop of the backup process possible. Storage on local media, e.g. via USB interface
- Storage on built-in devices
- Storage via network on external computers or file servers
- Extensive selection criteria for selection of the recordings to be saved, e.g. continuously, only alarm-activated or protected videos, only recordings with changes in contents, etc.
- Individual configuration for each camera
- Upgrade through simple software activation
- Evaluation or playback by means of the Network-Player

Article no. Delivery contents

810190	AutoBackup Module For automatically copying and/or archiving videos; time- or alarm-activated on internal/external media or drives. Network compatible.
--------	--

IP-HD MODULE



HDTV Recording – A new milestone in image quality

What up till now has been limited to HDTV television and digital photographic cameras is now possible in video surveillance systems – multi-megapixel image formats! A unique combination of multi-megapixel network cameras and hybrid recording software for digital recorders and/or IP cameras enables a degree of exact detail never before attained in CCTV. With this high level of image quality, it is now possible to do without analogue dome cameras in many applications because of the ability to digitally zoom in on live surveillance as well as playback. For example: with a 3 megapixel camera (2048 x 1536 pixels), up to four access lanes at a gas station can be surveyed with an exactness of detail which previously required four analogue cameras. MULTIEYE software for all MULTIEYE recorders, DVR kits and NET supports the operation of multi-megapixel cameras, for example those from IQeye, Lumenera, Arecont Vision.

Article no.	Delivery contents
810163	IP-HD Module for the use of multi-megapixel IP cameras with a resolution larger than 1.4 megapixels, server license

DESKTOPLOGGER MODULE



With the Desktop Logger (DTL) module and MULTIEYE systems, PC monitors can be kept under optimal remote surveillance. This monitor remote surveillance works on a client-server basis via the network. The DTL software scans, encodes and streams the monitor images via the network to a MULTIEYE system. In the MULTIEYE system, several monitor images are displayed and recorded per second. Recording of the desktop images is done in standard video format in the MULTIEYE system, dependent upon activity; i.e. if no work is being done at a PC, no recordings are made. DTL software supports all monitor resolution formats as well as dual- and/or quad-monitor operation on a PC.

Article no.	Delivery contents
810180	DesktopLogger Module DTL

IP-VIDEO LICENSE



Artikel-Nr.	Lieferausführungen
810161	IP-4 License for activation of an additional 4 IP video inputs

EX-IO SERVER

Switches inputs and outputs via networks where they're needed

With the EX-IO server, you no longer need to lay separate cables to external devices and actuators for the reverse control of and by MULTIEYE systems. When connected directly to a computer network, the EX-IO provides you with a ready-to-run network server, six non-potential contact inputs and six switch outputs via TCP/IP - there where you need them.

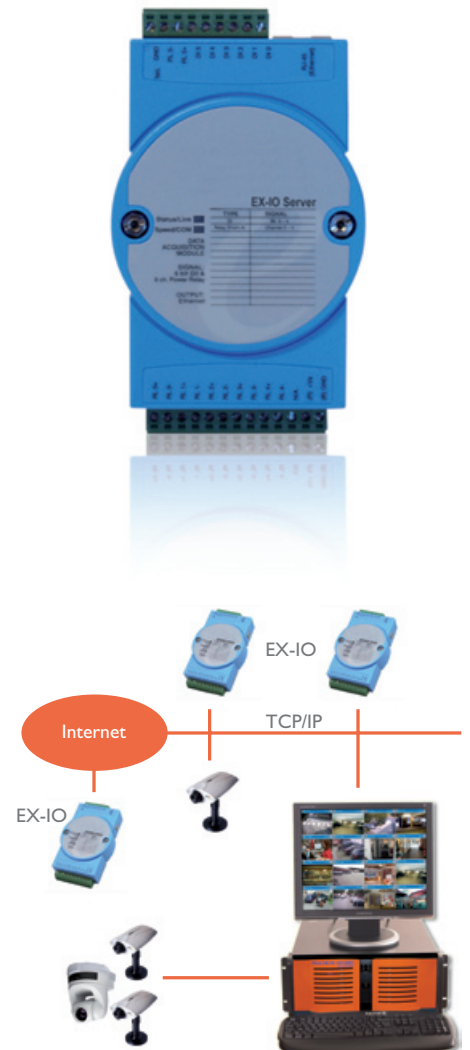
That saves installation costs and expands the action radius of your MULTIEYE system, for – thanks to TCP/IP communications - devices can be accessed or processes (such as image recording or messaging via SMS, Email, etc.) can be activated around the world via the internet.

The EX-IO server is compatible with MULTIEYE-HYBRID DVR Kits, MULTIEYE-HYBRID recorders, as well as with MULTIEYE-NET Software, including up to 16 EX-IO servers (96 inputs, 96 outputs) per MULTIEYE system are supported.

Technical data

Type	6066
Number of channels	12
I/O Type	6 relay outputs and 6 digital inputs
Relay output	AC: 250V 5A DC: 30V 5A
Digital input	Contact input Switch voltage DC 0 ... +3V: Status= 0 Switch voltage DC +10 ... +30V: Status=1
Network connection	RJ 45, 10/100 BaseT Ethernet
Voltage supply	10-30V DC
Power consumption	2 watts
Attachment accessories	Wall bracket, clamp-track holder

Article no.	Delivery contents
810701	EX-IO server type 6066 Integrated Ethernet port. The 6066 includes 6 opto-isolated digital inputs and 6 relay outputs for AC 250V 5A and DC 30V 5A. It includes the activation license for operation with MULTIEYE-HYBRID DVR kits, NET software and recorders
I30003	EX-IO power supply 12V 0.8A



Areas of application

- Remote operation of doors, gates and barriers
- Remote switching of illumination systems and electrical devices
- Switching on external alarm units (e.g. motion notification, hand sensors, etc.) for controlling image recording
- Switching on third-party systems (e.g. access control, robbery and fire alarm systems) for controlling image recording and messaging

ENTERPRISE

Article no. NG4012



Details

- 12/32 channel HYBRID video recorder
- 8 active analog video inputs
- 4 active IP video channels, expandable up to 24 through REC IP-I/IP-4 licenses
- IP HD module
- Analog recording rate 200 fps/ips
- Image data processing up to 800 Mpixels/s*
- Internal harddrive for operating system and MULTIEYE® software
- 3 integrated HDD exchange slots
- Storage capacity selectable up to 3 TB
- 19" housing, 4 rack-unit height, with lockable front panel
- Motherboard with Intel® chipset and Core 2 Quad
- CD/DVD burner, USB and PS2 ports
- Incl. Shell and NetworkPlayer
- Operating system: Windows XP Professional (available in various languages)
- For further details, please see pages 29

Article no. NG0312



certified BGV cash points
incl. certificate and EX-IO Server

Options

- Swappable data harddrives 500 GB, 1000 GB
- REC IP-I/IP-4 activation license for activating 1 or 4 additional IP video channels
- REC-IO alarm inputs/outputs
- EX-IO server
- VideoCenter II
- AutoBackup module
- DataLog module
- Joystick controller
- EBÜS-system compatible
- Factory guarantee extendable to three years

ENTERPRISE MX

Article no. NG0512



Details

- 12/32 channel HYBRID video recorder
- 8 active analog video inputs
- 4 active IP video channels, expandable up to 24 through REC IP-I/IP-4 licenses
- IP HD module
- Analog recording rate 200 fps/ips
- Image data processing up to 800 Mpixels/s*
- Internal harddrive for operating system and MULTIEYE software
- 16 integrated swappable HDD slots, hotplug capable
- Storage capacity selectable up to 16 TB
- 19" housing with 4 rack-unit height
- Motherboard with Intel® chipset and Core 2 Quad
- CD/DVD burner
- USB and PS2 ports
- Incl. Shell and NetworkPlayer
- Operating system: Windows XP Professional (available in various languages)
- For further details, please see pages 29

Options

- Swappable data harddrives 500 GB, 1000 GB
- RAID controller
- REC IP-I/IP-4 activation license for activating 1 or 4 additional IP video channels
- REC-IO alarm inputs/outputs
- EX-IO server
- VideoCenter II
- AutoBackup module
- DataLog module
- Joystick controller
- EBÜS-system compatible
- Operating system: Windows 2003 Server
- Factory guarantee extendable to three years

MULTIEYE®-GREENWATCH RECORDER

GreenWatch

The new GreenWatch Generation from MULTIEYE® Video Surveillance Recorder with 8 channel is ideal for high-demanding surveillance tasks in smaller projects.

Quality made in Germany, reliability and easy handling – these are attributes which describe artec's products in general, and of course, they also apply to the new GreenWatch recorders. These recorders can be deployed universally, e.g. to monitor and survey self-service pumps and shops at petrol stations or to keep a company's office or private property under surveillance. The new GreenWatch recorders can be integrated very easily into new digital surveillance systems.

Advantages

- Full version MULTIEYE® NET/HYBRID Software Version 2.2
- Simple integration of branches / offices in existing MULTIEYE® installations
- Completely installed
- Extremely user-friendly
- All modules of the MULTIEYE® HYBRID/NET series usable (besides channel enhancements)
- Low power consumption 90 watts



Highlights

- Scalable HYBRID video recorder with up to 8 channels
- Supports up to 8 cameras ¹⁾
- Up to 150 Megapixel image processing rate ²⁾
- Intel Pentium Dual Core Processor
- 1 TB harddrive
- Low power consumption 90 watts
- Megapixel camera support
- H.264, JPEG, MPEG-4 und MJPEG support, depending on type of camera
- Supports more than 75 network camera manufacturers as e.g. Axis, ACTi, Panasonic, IQInvision, Santec, SMC Networks...
- Full POS support capability to ensure easy embedding into cash register, admission control and ATM system.
- Cascadable with using MULTIEYE® VC II Software (not included)
- Fast search of recordings
- Remote control per e.g. PDA
- Picture & Video Validator
- Videos can be protected by a watermark
- Simultaneous viewing of live images and recordings
- Various alarm notification functions
- S.M.A.R.T function to monitor the harddrives
- Support ImmerVision IMVI-1/3 Panomorph lenses with equalization and virtual PTZ control
- Clientprogram compatible with Windows Vista
- Windows 7 tested
- MULTIEYE® Software available in: D, DK, E, GB, F, H, I, NL, P, RO, S, SK, TR are updated continuously

¹⁾ not expandable

²⁾ dependent on camera resolution, display size and the codec used (MJPEG, MPEG4, H.264)

GREENWATCH NVR

Article no. NG0406



Details

- artec small desktop housing black
- Mainboard with actual Intel G43 Chipset
- Intel Pentium Dual-Core E5200 2 x 2,5GHz, 800 MHz
- 2 GB RAM
- ITB video harddrive Western Digital especially suitable for continuous operation (40GB as system range partitioned)
- LiteOnDVD burner already integrated
- DVI-I and HDMI monitor connection
- 6 USB 2.0 + 1 Front USB
- Power supply unit: Input V~ / Hz 100-240 V~, 50-60 Hz (Full Range) Watt 300 W
- 2 years guarantee

Max. measurements:

- W x H x D (in mm): 350 x 136 x 383
- Weight: approx. 8,2 Kg

Options

- EX-IO server
- VideoCenter II
- AutoBackup module
- DataLog module
- Joystick controller
- EBÜS-system compatible
- Factory guarantee extendable to three years

GREENWATCH HYBRID

Article no. NG0407



Details

- artec small Desktop Gehäuse schwarz
- artec small desktop housing black
- Mainboard with actual Intel G43 Chipset
- Intel Pentium Dual-Core E5200 2 x 2,5GHz, 800 MHz
- 2 GB RAM
- ITB video harddrive Western Digital especially suitable for continuous operation (40GB as system range partitioned)
- LiteOnDVD burner already integrated
- DVI-I and HDMI monitor connection
- 6 USB 2.0 + 1 Front USB
- analog Grabbercard with four inputs (25 fps/ips total)
- 1 audio input
- Power supply unit: Input V~ / Hz 100-240 V~, 50-60 Hz (Full Range) Watt 300 W
- 2 years guarantee

Max. measurements:

- W x H x D (in mm): 350 x 136 x 383
- Weight: approx. 8,3 Kg

Options

- EX-IO server
- VideoCenter II
- AutoBackup module
- DataLog module
- Joystick controller
- EBÜS-system compatible
- Factory guarantee extendable to three years

MULTIEYE® RECORDER ENHANCEMENT

Harddisks & Enhancements for NVR, BUSINESS, ENTERPRISE

All harddrives in aluminum HDD drawers with LCD-function display, ventilator and temperature monitoring, integrated ventilator. Only in conjunction with initial delivery.



Article no.	Description
NGI500	REC DVI/VGA-2, 2-channel monitor exit
NGI499	REC DVI/VGA-4, 4-channel monitor exit
NGI501	REC HDD 500GB Harddisk
NGI502	REC HDD 1TB Harddisk
NGI550	REC ATX power supply redundant
NGI600	REC RAID System, Raid I Systemharddisk
NGI611	REC RAID 500GB Raid I
NGI612	REC RAID 1TB Raid I

Harddisks & Enhancements for all MX systems

Only with initial delivery.



Article no.	Description
NGI600	REC RAID System, Raid I Systemharddisk
NGI606	REC RAID 4TB
NGI602	REC RAID 8TB
NGI603	REC RAID 10TB
NGI604	REC RAID 12TB
NGI605	REC RAID 16TB
NGI500	REC DVI/VGA-2, 2-channel monitor exit
NGI499	REC DVI/VGA-4, 4-channel monitor exit
NGI550	REC ATX power supply redundant







MULTIEYE® Recorder Enhancements & accessories

Article no.	Description
NGI050	REC EX-L4, for activation of 4 additional analogue video inputs for BUSINESS NG recorder.
NGI001	REC IP-4, license key for activation of 4 additional IP video channels, for all NVR, Business and Enterprise recorders.
NGI002	REC IP-HD Modul, license key for enabling usage of Multi-Megapixel IP cameras with resolution > 1.4 Megapixel, for all recorders. This module represents a system upgrade.
NGI052	REC 200, Upgrade for increasing analogue recording rate to 200/240 fps/ips, for BUSINESS recorders. Only available with initial delivery.
NGI053	REC IO, Alarm in- and outputs extension with each 8 opto-decoupled inputs and 2 relay switching outputs. For BUSINESS and ENTERPRISE recorders. Only available with initial delivery
NGI055	REC-EX-Audio 16 for audio recording of up to 16 audio sources (micro or Line). Scope of delivery: audio PCI board with 2 breakout cables and activation key. For Business recorders.
NGI056	REC EX-8, MPEG-4 board with additional 8 analogue & 8 audio inputs, connector for EX-IO, overall recording rate analog 200(240) fps/ips. For all Enterprise Recorder. Only available as factory upgrade!
I40100	Mini condenser microphone, with integrated preamplifier, very sensitive, for all MULTIEYE®-HYBRID DVR kits and ® recorders, input supply voltage 12V DC
8I0620	3- Axis USB-Joystick, 12 switching functions, 2 of them on top of joystick knob
8I0510	External converter USB/RS 485, for controlling high-speed-dome-cameras.



MULTIEYE® RECORDER OVERVIEW

Technical data

	NVR ^{NG}	NVR MX ^{NG}	BUSINESS ^{NG}	ENTERPRISE ^{NG}	ENTERPRISE MX ^{NG}	GREENWATCH NVR/HYBRID
						
Type	Network-videoecorder	Network-videoecorder	HYBRID Videorecorder	HYBRID Realtime Videorecorder	HYBRID Realtime Videorecorder	
Channel max.	32	32	32	32	32	8
Active analogue video inputs	-	-	8	8/16/24/32	8/16/24/32	4 (Hybrid)
Analogue video inputs per software license expandable to	-	-	32	-	-	-
Active IP video channels	8	8	1 ¹	4 (keine bei NG 32)	4 (keine bei MX 32)	4 (Hybrid) 8 (NVR)
IP video channels, per software license expandable to	32	32	24	24	24	-
Audio inputs	-	-	4	8/16/24/32	8/16/24/32	1
FBAS video outputs	-	-	1	1-4	1-4	-
Recording rate	800 MPixel/s*	800 MPixel/s*	100 fps 800 MPixel/s*	200/400/600/800 fps 800 MPixel/s*	200/400/600/800 fps 800 MPixel/s*	25fps 150MPixel/s*
Max. storage capacity in TB	3	16	3	3	16	1
RAID 0,1,5,6,10,50	-	•	-	-	•	-
19" housing dimensions: WxDxH (mm)	430x522x176	430x662x176	430x522x176	430x522x176	430x662x176	350x136x383 Desktop
Voltage supply, 110 – 230V AC, 50/60 Hz, consumption (W)	400	redundant 2 x 500	400	400	redundant 2 x 500	300
surrounding temperature	+5°C bis +35°C					
Certification as per	ROHS, ISO 9001, CE, TÜV GS					

¹ unlimited demo license (by enhancement with IP-1/IP-4, this channel is dropped, Art. no. 810161)

*Megapixels/second represents a value for image processing speed. The values stated refer to the processing and encoding of image data in or of M-JPEG Codecs. Other values apply to the processing of other Codecs such as MPEG-4, H.264, transcoding of streams, recorder live display and remote monitoring. Calculation tables are available for dimensioning network-based video surveillance. Please contact our support personnel for exact planning.

Number of data hard drives necessary:

You need approximately 0.1 MB/s per MPixel/s for the storage of M-JPEG data, and about 0.025 MByte/s per MPixel/s for MPEG-4 data. For every 10 MByte/s of video data to be stored, we recommend an additional hard drive.

MULTIEYE® RECORDER OVERVIEW

General technical data

QUADPLEX and HYBRID operation	Simultaneous recording, playback, monitoring and remote transmission, mixed operation of analog and IP cameras with one user interface)
Video norm	PAL, NTSC
Live monitoring	Via PC monitor with 8 programmable multiscreens with hotspot display and analog camera operation via the 1 – 4 video outputs
Image resolution	Analog CIF, 2CIF, D1/4CIF (PAL AND NTSC), individually variable for each camera, IP video sources up to 1280 X 1024 pixels, higher resolution with IP-HD license up to 20 Mpixels per IP video channel
Compression procedure	MPEG-4, JPEG, M-JPEG and H.264 compression infinitely variable, image preview of the compression setting
PTZ control	Serial and via network, control via popup menu, keyboard and/or triaxial joystick
Alarm inputs/outputs	Internally up to 32 alarm inputs and 8 relay outputs, externally up to 96 inputs and outputs through EX-IO servers or video sensors
Motion detection	Matrix with 2304 individual fields, selectivity of fields unlimited
Camera outage recognition	For analog and IP cameras (interruption of network communication), messages optical, acoustic, and/or via Email
Text imprint/overlay	Time, date, free text: 50 characters, freely positionable fields, font size & type, text and background colors variable, 10 additional fields in DataLog operation
Weekly timer	Adjustable per camera, continuous, motion detection, alarm contact, out, individual holidays programmable
VGA monitor outputs	1 X SVGA, expandable with max. of 2 dual-head graphic boards up to 4 X SVGA
Recording modes	Continuous, event-activated, time-activated, SDK
Ring storage	dynamic or static storage segmentation up to 16 harddrives, +NAS/SAN
Pre- and Post-alarm storage	Individually adjustable for each camera von 5 – 900 seconds
Storage capacity	Up to 3 TB for standard recorders and up to 16 TB for MX systems
Recording playback	1 – 4 channel playback, simultaneous, time-synchronized, variable playing speeds
Search criteria	Date, time, motion detection, MotionTrack, MotionSearch (image area search), motion histogram, text (with DataLog)
Video/individual image export	AVI format, single videos, processes, with or without player/BMP or JPEG
Authentication	Digital certification through invisible watermark in exported image and videos
Alarm message dispatch	Via Email, SMS, ICQ, with/without alarm image, Windows News Service, external programs
Video remote polling	Cameras with the LiveViewer, adjustable popup and acoustic alarm, playback via the NetworkPlayer, monitoring and remote maintenance via MULTIEYE® RemoteControl (MRC), web polling of live cameras and recording (integrated web & video servers), VideoCenter II optional
Password protection	Multilevel password protection, freely definable user groups with individual rights, true “four-eye principle”
Functional security	Video board Watchdog, crash recovery, auto-record, video outage recognition, recorder status reports
Logb files	For event documentation
Software update	With LiveUpdater via the Internet
Menu languages	D, DK, E, GB, F, H, I, NL, P, RO, S, SK, TR, others continuously being added
Operating system O/S	MS Windows XP, protection from unauthorized access; deactivation of the Windows GUI through MULTIEYE® Shell
Housing, connections	19” industrial rack, depending on the version with lockable front panel, integrated harddrive with operating system and MULTIEYE® software, 3 – 16 swap slots, DVD-RW, integrated ventilator control and monitoring of the cabinet's interior temperature, with alarm function. Ports: BNC: video, cinch: audio and video monitor out. All racks include VGA connection, audio in/out, LAN Gbit, 4 – 6 X USB 2.0

2 Unlimited demo license (after expansion with IP-4, this channel is deactivated, Article no. 810161)

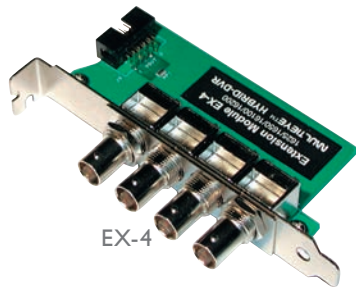
MULTIEYE® RECORDER MATRIX

	BUSSINESS ^{NG}	ENTERPRISE ^{NG}	ENTERPRISE MX	NVR ^{NG}	NVR MX	GREENWATCH
Analog cameras	•	•	•	-	-	•/-
M-JPEG video compression	•	-	-	•	•	•
MPEG-4 video compression	•	•	•	•	•	•
IP cameras (JPEG, M-JPEG, MPEG-4)	•	•	•	•	•	•
Audio recording	•	•	•	-	-	
Up to 16 TB harddrive storage in the recorder	-	-	•	-	•	-
Redundant power supply pack	-	-	•	-	•	-
Additional operating system harddrive, operating system Windows XP Pro., MULTIEYE® shell, network playback license, gigabit network connection, CD/DVD burner, disk drive, slots for swappable data hard-drives, USB ports	•	•	•	•	•	-

Optional expansions

REC IO alarm board	•	•	•	-	-	-
REC EX-L4, analog channels	•	-	-	-	-	-
REC IP-4, IP camera channels	•	•	•	•	•	-
IP-HD module (up to 20 Mpixels)	•	•	-	-	-	-
REC EX-audio 16	•	-	-	-	-	-
REC 200 (100 -> 200 fps)	•	-	-	-	-	-
REC EX-8	-	•	•	-	-	-
REC BNC Box	•	-	-	-	-	-
RAID Controller (0, 1)	•	•	•	•	•	•
EX IO server, AutoBackup, DataLog, NetworkPlayer licenses, triaxial joystick	•	•	•	•	•	-
OS Windows 2003 Server	-	-	•	-	•	

HARDWARE ENHANCEMENTS



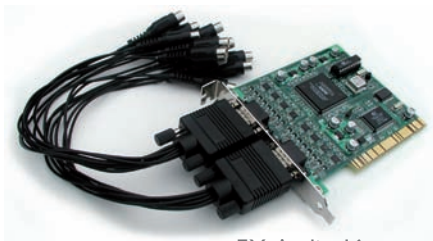
EX-4



BNC Box



EX-IO Alarmboard



EX-Audio 16



Mini condensor microphone

for DVR-Kits and Recorder

Article-no.	Description
810010	EX-4 video expansion board, with 4 analogue BNC inputs (75 Ohm detachable) connectable to all I625, I650 und I6100 video boards. Incl.Activation key.
810405	EX-24 Set, adapter board with 24 analogue BNC inputs (75 Ohm detachable). Enables usage of 2 x I6xxx boards in one PC. Delivery includes 2 pieces of BNC 12 breakout cable.Attention: activation keys EX-L4 for more camera inputs are not incl. Please order them separately.
810420	BNC box for DVR kits I6200,32100 and MPxxx,as alternative to breakout cable. 16x BNC connector panel, 19", 1 U, closed sheet steel box, black, delivery includes 2 pieces of video connecting cable with 1 m length.
810025	EX-IO alarm board, expansion with each 8 opto-decoupled inputs and 2 relay switching outputs. For all I6xxx. 32100 und MP video boards. (max. 2 x EX-IO per video board).
810701	EX-IO Server 6066, integrated Ethernet port, the 6066 has 6 opto-decoupled, digital inputs and 6 relay outputs for 250 VAC @ 5A, and 30 VDC @ 5A.The 6066 will be delivered with activation key for usage with MULTIEYE®-HYBRID DVR kits, NET software and recorders.
810175	EX-IO Server software license, for activation of 6066 units not supplied by us
810200	EX-audio I6, for audio recording of up to 16 audio sources (micro or Line). Scope of delivery: audio PCI board with 2 breakout cables and activation key.
I40100	Mini condenser microphone, with integrated preamplifier, very sensitive, for all MULTIEYE®-HYBRID DVR kits and MULTIEYE recorders, input supply voltage 12V DC.

EX-IO SERVER

Use switch inputs and outputs via network where they are needed

With the EX-IO server, you no longer need to lay separate cables to external devices and actuators for the reverse control of and by MULTIEYE® systems. When connected directly to a computer network, the EX-IO provides you with a ready-to-run network server, six non-potential contact inputs and six switch outputs via TCP/IP – right there where you need them. That saves installation costs and expands the action radius of your MULTIEYE® system. Due to TCP/IP communications, devices can be accessed, or processes (such as image recording or messaging via SMS, Email, etc.) activated around the world via the Internet.

The EX-IO server is compatible with MULTIEYE®-HYBRID DVR Kits, MULTIEYE®-HYBRID recorders, as well as with MULTIEYE®-NET Software. Up to 16 EX-IO servers (96 inputs, 96 outputs) per MULTIEYE® system are supported.

Technical data

Type	6066
Number of channels	12
I/O type	6 relay outputs and 6 digital inputs
Relay output	AC: 250V 5A DC: 30V 5A
Digital input	Contact input - relay controlled - voltage controlled DC 0 ... +3V: status= 0 DC +10 ... +30V: status=1
Network connection	RJ 45, 10/100 BaseT Ethernet
Voltage supply	10-30V DC
Power consumption	2 Watt
Attachment accessories	Wall bracket, clamp-track holder

Article no.	Description
810701	EX-IO Server 6066, integrated Ethernet port, the 6066 has 6 opto-decoupled, digital inputs and 6 relay outputs for 250 VAC @ 5A, and 30 VDC @ 5A. The 6066 will be delivered with activation key for usage with MULTIEYE®-HYBRID DVR kits, NET software and recorders.
I30003	EX-IO wall plug transformer 12V 0,8A



Typical applications

- Remote operation of doors, gates and barriers
- Remote switching of illumination systems and electrical devices
- Switching on external alarm units (e.g. motion notification, hand sensors, etc.) for controlling image recording
- Switching on third-party systems (e.g., access control, robbery and fire alarm systems) for controlling image recording and messaging

SUCCESS STORY



National Center for the rearing of the Lince Iberico (Iberian lynx), Portugal

In May 2009, after a year of construction, the only breeding station for the endangered Iberian lynx in Portugal opened. The remaining population of the animals on the Iberian Peninsula is limited to estimated max. 300.

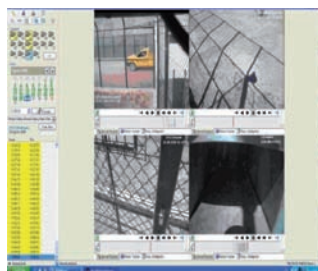
Covering an area of 3.5 ha in Silves at the Algarve, 20 of these rare animals are observed around the clock by scientists to learn more about the behavior of the lynx and to create optimal conditions for reproduction.

Scientists rely on their observations on the MULTIEYE®-NET video surveillance software version 2.1.1.3. The digital monitoring system consists of 3 servers and a total of 73 IP cameras, who monitor the fairground, the building of the staff and the enclosure of the 13 males and 7 females.

The 73 IP cameras (32 speed dome cameras and 41 fixed-megapixel cameras) are connected by 10/100 MBit wires to the LAN via three 10/100 MBit switches. Using a Gigabit Ethernet line the images / videos will be transferred to the MULTIEYE® server for further processing.

A total of three workstations with 4 monitors are available for the employees. In addition to the live observation of the animals, looking at the recordings is at the forefront of the work. The extremely fast searches of motion in the recorded video from each enclosure and open space remains to be of paramount importance to the efficient work. MULTIEYE® offers the Smart Search technology, the possibility to browse through 1 TB of video data within 2 to 5 seconds and display the video segments with movement chronologically.

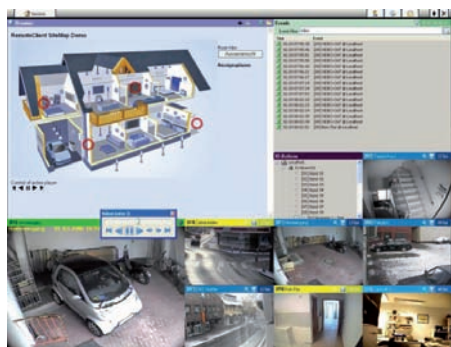
Project Partner: AlwaysSecure, Portugal



MULTIEYE® Software enhancements

for all MULTIEYE® products

VIDEOCENTER II



Highlights

- Site-plan based video management software for cross-system display and operation of up to 32 MULTIEYE® systems (1000+ cameras)
- Easy to use
- Support for up to 4 multiscreens with up to 256 monitor windows
- Multiscreen layouts individually definable and user dependent storable
- HotSpot function, multifunctionable
- Automatic alarm-image call-up
- Live display with full quality and resolution through DirectStream network transmission
- Integrated site-plan editor for simple positioning of interactive icons
- Browser integration: display of HTML pages (e.g. emergency plans of action)
- Instant replay of recordings and time-shift playback
- PTZ control via software, keyboard or operational unit
- Retroactive control of alarm inputs and outputs
- HotZoneMegapixel Zooming function
- Supports the ImmerVision IMV I-I/3 panomorph lens
- User management

Note:

When the expanded playback function through network players is used, the MULTIEYE® recorders must be licensed accordingly. When using the VCII Version 2.2 in MULTIEYE® systems up to version 2.1, the MULTIEYE® recorders/systems must be upgraded (upgrade article number 812101).

System recommendation

Intel® based motherboard, Core™2 Duo Processor, 1GB RAM, DVD burner, Windows 2000, XP or 2003 Server, well ventilated cabinet, Dual Head

Keep an eye on things with VideoCenter II

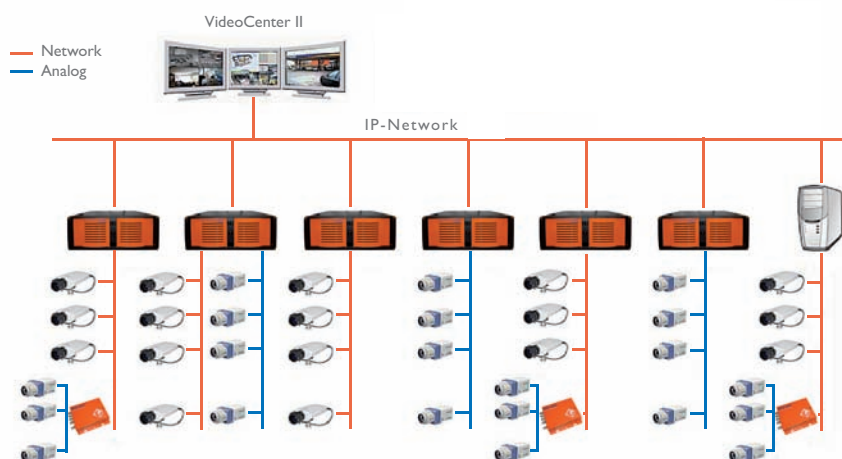
The MULTIEYE® VideoCenter II (VCII) is an easy to use, multi-functional video management solution for the query from any number of MULTIEYE® recorders. In version 2.2. VC II is able to request now up to 32 MULTIEYE® recorder simultaneously. The VC II in version 2.2. is characterized by significant performance improvements, a variety of new features and offers as a system-wide management solution, an unbeatable price / performance ratio.

Details:

The VC II manages and visualizes up to 256 monitor windows for the live camera view, playback, IO control, browser plug-ins and log files. HotSpot display (alarm images) and maps can also be assigned to the monitor windows. The VC II supports up to 4 monitors, each monitor can assign max. 64 windows. The multi-screen layout can be customized individually and can be saved user-dependent as a favorite. With the dynamic HotSpot function, cameras can be displayed via mouse click and/or automatically per alarm in the HotSpot alarm window. The programmable HotSpot function also has an alarm image sequence view - to show current alarms / events.

Site-plans are created by the site-plan editor and linked logically with cameras and switching elements. The playback in the VC II takes place with the integrated player with the motion index display. Within VC II, the Hot Zone megapixel zooming function developed by artec and also the DirectStream technology are available for resource protecting querying of the IP video streams. In the monitor of the multi-screens, up to four internet browser for third-party applications such as intercom, video telephony, PeopleCounting or to query recorder independent IP cameras and encoders.

The software license is authorized via a USB dongle which is inserted into a free USB port on the PC with the installed VideoCenter II. A license is required for each client.



Article no.. Description

810155	VideoCenter II with CD, manual, MULTIEYE® VideoCenter II license, USB dongle
NG2100	VideoCenter II Monitoring Station 2 x DVI output consisting of a 19" PC with dual DVI output.
NG2101	VideoCenter II Monitoring Station 4 x DVI output consisting of a 19" PC with quad DVI output

Function

The NetworkPlayer makes it possible for you to easily access your MULTIEYE®-HYBRID and NET systems via your network or the Internet. In this way, you can efficiently evaluate recordings and export relevant sequences or images to secure evidence on local storage media such as DVDs or the harddrive of your PC or notebook – remotely as well.

The NetworkPlayer has properties nearly identical to the Multiplayer: e.g. simultaneous playback of up to 4 videos; quicker fast forward and rewind; access to individual sequences; table summaries with filter functions; histogram overviews; motion diagrams; MotionTrack; MotionSearch; snapshot functions with storage and printing capabilities; protection of the videos against overwriting.

Server / Clients

After entry of the activation key-code, the NetworkPlayer server function on the MULTIEYE®-HYBRID PC is activated and the videos can be started at client locations.

The NetworkPlayer software can be installed on several clients; in case only one NetworkPlayer server license is installed on the MULTIEYE®-HYBRID/NET PC, only one participant/user can access the MULTIEYE® PC at a time.

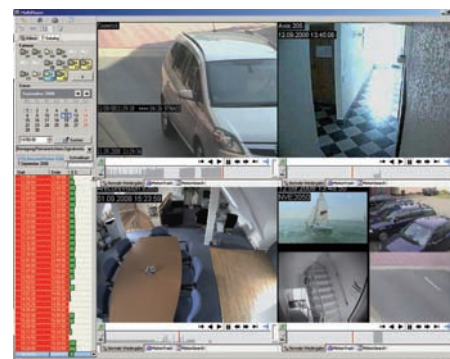
However, if five licenses are obtained, 5 participants/users (maximum) can be granted simultaneous access to the MULTIEYE® PC.

Delivery contents

- Program CD
- Operating instructions
- Activation key for one MULTIEYE®-HYBRID NetworkPlayer license

Article-no.	Description
810151	Network Player, Software and Server license for MotionTracking, MotionSearch, playback, backup and storage of video sequences and still images over network, 1-4 channel playback, integrated cache. Can be used as single player for playback of copied videos on media, server license for 1 additional user.

One NetworkPlayer server license is already included in every MULTIEYE® standard set (recorder, kit, NET).



Highlights

- Remote evaluation, playback and archiving of video sequences and images via LAN, Internet, GSM/UMTS
- Simultaneous 1 – 4 channel playback of M-JPEG and MPEG-4 streams
- Conversion of M-JPEG/MPEG-4 to reduce the necessary transmission band width
- Ultra-fast remote video analysis of recordings with hotspot markers through MotionSearch, MotionTrack, motion diagram, histogram
- Integrated cache function for fast forward and rewind, as well as access to specific recording sequences
- Utilization as a stand-alone player for archived and exported recordings
- Server license for one user at a time, installation on several PCs possible

System recommendation

Intel® based motherboard, Core™2 Duo Processor, 1GB RAM, DVD burner, Windows 2000, XP or 2003 Server, well ventilated cabinet, Dual Head

DATALOG MODULE



Highlights

- Data transfer via RS-232 and network
- Data blend-in into live camera images with fade out or in of up to 10 lines
- Freely configurable font type & size, color, background color as well as position
- Automatic alarm messages on key words
- Event search via key words, time, date
- Fully network capable

The DataLog module is a data interface for all MULTIEYE® products (from version 2.0.1). This enhancement enables the integration of data devices such as cash-points (POS), ATMs, access controls, scanners (bar code readers), SPS controllers, GPS receivers, etc.

Via the MULTIEYE® recorder's RS-232 interface as well as via the network (TCP), the data is blended into the live camera image and tied to the video recording. The recorded data can be evaluated by key words (e.g., "cancel") and displayed together with the relevant video.

Through such key words, notifications can automatically be dispatched via mail or SMS. The MULTIEYE® software supports the operation of up to 32 devices per recorder!

The DataLog module can be operated with analog and/or IP cameras.

Article-no.	Description
810172	DataLog module
810173	DataLog license, for an additional data source.

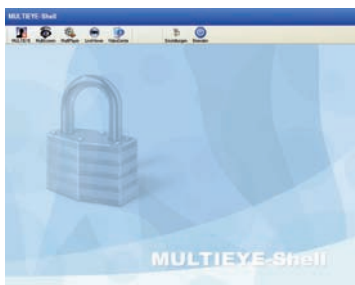
SENSORLOG MODULE



The Software Sensor System Connector Licence (MULTIEYE® SensorLog) for the MULTIEYE® HYBRID/NET software from version 2.2 offers the possibility to use external sensor system applications as e.g. the via:sys alarm plug-in for IQeye and AXIS cameras or the AXIS Cross Line Detection function (more applications on request). The MULTIEYE® HYBRID/NET software from version 2.2 receives information by the the sensor system connector, which then can activate various actions (alarm images, alarm recordings, e-mail/SMS etc., IO activation). One licence per camera is necessary. External applications from AXIS/via:sys are not included in the delivery.

Article-no	Description
810176	SensorLog module

SHELL MODULE



Highlights

- No access to the Windows level without authorization
- Direct start-up of the shell desktop
- Interconnection to several programs possible
- Ideal tool for exclusive operation as a recorder

Software to protect against undesired use of Windows

With the shell module, users can be denied access to Windows. Then only MULTIEYE® is functional.

In this case, MULTIEYE® can only be closed down via the shell desktop interface. Access to the Windows interface can only be obtained with a password. Supplementary programs can be connected to the shell interface, such as LiveViewer or Office applications. The optics of the shell desktop interface can be individually adapted.

Article-no	Description
810153	Shell module

AUTOBACKUP MODULE

Automatic backup of videos

With the MULTIEYE® AutoBackup software module you can automate the archiving of your image and audio recordings and in this way protect yourself from data loss by overwriting (ring storage), outages or sabotage. Archiving can then be done on a time- or event-controlled basis or continuously, either locally or on storage media via network. For each camera, you can individually predefine which segments of your recordings are to be archived.

This means that you may fulfill the requirements of data privacy protection laws by, for example, only archiving relevant recordings. By software activation, this function can later be added on all MULTIEYE®-HYBRID/NET systems, adding to the security of your investment in the MULTIEYE® system.

Activating the software function

Enhancement of your MULTIEYE® system with the auto-backup function is simply done by software activation. To do this, an activation key is either typed or pasted into the MULTIEYE® software user interface.

After completion of the licensing, you have AutoBackup at your disposal for a maximum of 32 cameras and audio channels. For several MULTIEYE® DVRs/NVRs you will need an individual license key per unit/system.

Archiving options

Alarm videos: here only those videos will be backed up which were recorded by contact-alarm activation.

Store only protected videos: back up only protected videos: alarm-activated videos can be protected against overwriting. With this setting only protected recordings will be archived.

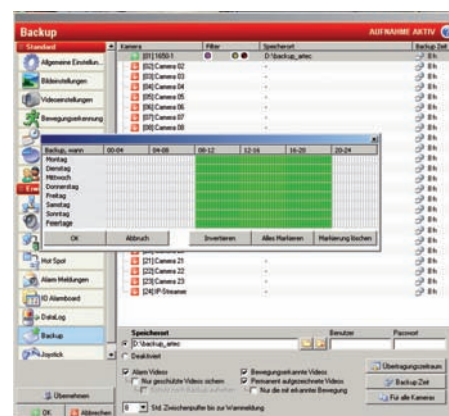
Cancel protection after backup: After archiving is completed, the overwrite protection of the archived video file will be shut off.

Motion-activated videos: only motion-activated recordings are archived.

Videos with motion field: only those recordings/sequences will be archived which contain a change in the image content (motion).

Continuous: With this setting all recordings are archived.

Of course, archiving can also be done with a combination of the previously named criteria. Upon fulfillment of the predefined criteria, archiving can be done immediately or at previously predefined times of day. In addition to automatic archiving, the process can also be started and/or stopped manually via the operator interface.



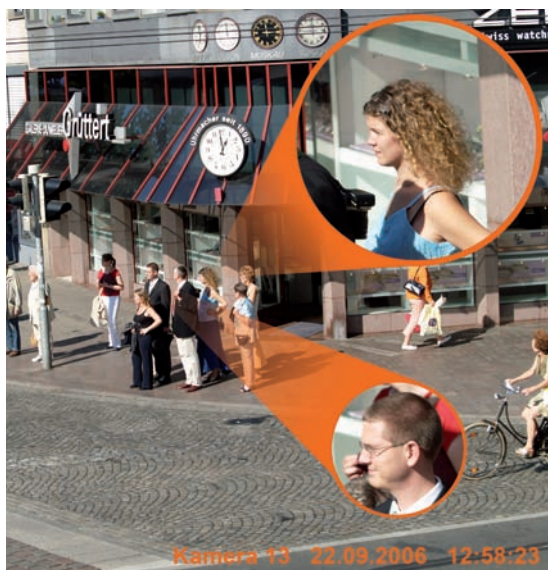
Highlights

- MULTIEYE® software enhancement for automatically exporting and archiving video and audio recordings
- Continuation, time- or event-controlled archiving
- Manual start and stop of the backup process possible
- Storage on local media
- Storage via network on external computers or file servers
- Extensive criteria for selecting the recordings to be saved; e.g. continuously, only alarm-activated or protected videos, only recordings with changes in content, etc.
- Individual configuration for each camera
- Upgrade through simple software activation
- Playback or evaluation of exported recordings by means of the NetworkPlayer

Article-no. Description

810190	AutoBackup module, for automatic copying and/or archiving of videos, time- or alarm-triggered, on internal/external data volumes or drives. network version.
--------	--

IP-HD MODULE



HDTV Recording – A milestone in image quality

What previously had been limited to HDTV television and digital photographic cameras is now possible in video surveillance systems – multimegapixel image formats! A unique combination of megapixel network cameras and hybrid-based digital recorders and/or IP camera recorder software enables a degree of exact detail never before attained in CCTV. With this high level of image quality, it is now possible to do without analog dome cameras in many applications because of the ability to digitally zoom in on live surveillance as well as playback. For example: with a three megapixel camera (2048 X 1536 pixels), up to four access lanes at a gas/petrol station can be surveyed with an exactness of detail which previously required four analog cameras. MULTIEYE® software for all MULTIEYE® recorders, DVR kits and NET software supports the operation of multimegapixel cameras, for example those from IQeye, Lumenera, Arecont Vision.

Article-no.	Description
-------------	-------------

810163	IP-HD Module for the use of multi-megapixel IP cameras with a resolution larger than 1.4 megapixels, server license
--------	--

DESKTOPLOGGER MODULE



With the Desktop Logger (DTL) module and MULTIEYE® systems, PC monitors can be kept under optimal remote surveillance. This remote surveillance of monitors works on a client-server basis via network. The DTL software scans, encodes and streams the monitor images with full resolution via network to a MULTIEYE® system. In the MULTIEYE system, several monitor images are displayed and recorded per second. Recording of the desktop images is done in standard video format in the MULTIEYE® system, dependent upon activity; i.e., if no work is being done at a PC, no recordings are made. DTL software supports all monitor resolution formats as well as dual- and/or quad-monitor operation on a PC.

Article-no.	Description
-------------	-------------

810180	DesktopLogger module DTL
--------	--------------------------

VIDEO LICENSE KEY FOR ACTIVATION



Article-no.	Description
-------------	-------------

810161	IP-4 license, key for activation of/up to 4 additional IP video channels.
810415	EX-L4 license, key for activation of 4 additional analog video inputs for DVR kits 16200, 32100 and EX-24 set.

MULTIEYE®-UPGRADE

MULTIEYE® pro/4 Upgrade to MULTIEYE®-HYBRID

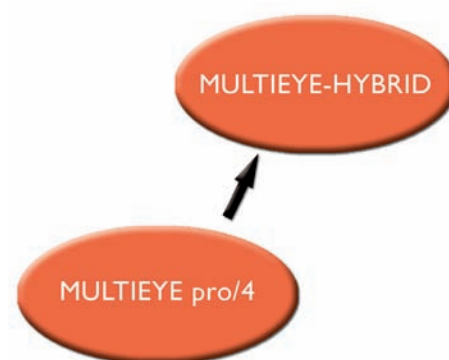
With the MULTIEYE®-HYBRID software upgrade, existing MULTIEYE® pro/4 recorders can now be upgraded to MULTIEYE®-HYBRID without the need to exchange or replace hardware. MULTIEYE®-HYBRID software now offers many new features, including:

- Activation of up to 32 (max. of 16 analog) camera inputs per recorder
- Operation of both analog and IP cameras with one recorder
- 2 audio inputs (if and when an audio card is supported)
- Freely programmable multiscreens
- PTZ camera remote control
- 1 – 4 fold playback, synchronized as well
- Remote surveillance via browser
- Remote maintenance
- Alarm notification
- Recording of audio sources through the EX-AUDIO16 board (optional)
- Cash-point data interface can be retrofitted
- Software actualization via Internet

With MULTIEYE®-HYBRID software, you can not only comfortably expand your established system through the use of network (IP) cameras; the software will provide you with completely new recording functions and capacities up into the TB range as well!

The upgrade can be obtained under Article No. 812100 and is valid for one MULTIEYE®-pro/4 system.

Delivery includes: Software on CD-ROM, user's manual, brief tutorial, and activation license. As an added bonus, the software upgrade includes an IP video input. With the IP-4 license, the unit can be expanded to 4/8 IP video inputs.



NOTE:

- Functions with Windows 2000, XP and 2003. Win98, ME and NT 4.0 are not supported
- MULTIEYE®pro/4 I/O alarm boards are not supported. The EX-IO server can be used as an alternative

System recommendation

Intel® based motherboard, Core™2 Duo Processor, 1GB RAM, 1x HDD for operating system and software, 1x HDD for video data, DVD burner, Windows 2000, XP or 2003 server, well ventilated cabinet

Article-no.	Description
812100	Software upgrade of MULTIEYE®pro/4 systems to MULTIEYE®-HYBRID, with the upgrade all advantages and functionalities of the MULTIEYE®-HYBRID software can be used. After the upgrade the system can be expanded to up to 32 inputs (max. 16 analogue). The delivery contains 1 IP video channel (expandable with IP-1/IP-4).
810161	IP-4 license, key for activation of/up to 4 additional IP video channels.
812101	MULTIEYE®-HYBRID upgrade with new functions



Muehlenstrasse 15-18
49356 Diepholz
Germany

Tel. +49 5441/5995-0
Fax +49 5441/5995-70

Support Hotline:
Domestic calls to 0900 1278320*
*€0.12 / min. from the DTAG network
(mobile phone prices vary)

Foreign: +49 1805-278321**
 ** €0.24 / min. in addition to the fees of your
 local national network provider

www.artec.de | www.multieye.de
info@artec.de | sales@artec.de

© artec technologies AG, October 2008.
MULTIEYE, Quadplex, XentauriX
and CVoD are registered trademarks
of artec technologies inc.
All other company names and products
are trademarks or registered
trademarks of the individual companies.
Technical changes and errors reserved

Your MULTIEYE-Partner: